STANDARD INSPECTION REPORT OF GAS DISTRIBUTION PIPELINE

Name of Operator:	
H.Q. Address:	**Unit Name and Address:**
Co. Official: **Phone No.:** **Fax No.:** **Emergency Phone No.:** **Operator ID#:**	**Phone No.:** **Fax No.:** **Emergency Phone No.:** **Unit Record ID#:** **Inspection Record ID#:**
UREC#(s) of adjacent operator Units:	

Persons Interviewed	Titles	Phone No.

OPS Representative(s): **Date(s):**

Company System Maps (copies for Region Files)**:**

Unit Description:

Portion of Unit Inspected:

For gas transmission and distribution operator inspections, the attached evaluation form should be used in conjunction with 49 CFR 191 and 192 during OPS inspections.

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GAS SYSTEM OPERATIONS					
Gas Supplier:		Date:			
Unaccounted for gas:		Services:	Residential	Commercial:	Industrial:	Other:

Operating Pressure(s):	MAOP (Within last year)	Actual Operating Pressure (At time of Inspection)
Feeder:		
Town:		
Other:		

Does the operator have any transmission pipeline (above 20% SMYS):

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All code references are to Part 192. **S - Satisfactory U - Unsatisfactory N/A - Not Applicable N/C - Not Checked**

PART 191

	REPORTING PROCEDURES		S	U	N/A	N/C
.605(b)(4)	Gathering data for incident reporting					
	191.5	Telephonically reporting incidents to **NRC**? **(800) 424-8802**				
	191.15(a)	30-day follow up written report? **(Form 7100-2)**				
	191.15(b)	Supplemental report (to 30-day follow up).				
.605(a)	191.23	Reporting safety-related condition.				
.605(d)	Instructing personnel in operations and maintenance to recognize **Safety Related Conditions**?					

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

PART 192

	CUSTOMER NOTIFICATION PROCEDURES		S	U	N/A	N/C
.13(c)	.16	Procedures for notifying all customers by **August 14, 1996** or new customers within **90 days** of their responsibility for those sections of service lines not maintained by the operator?				
	EXCESS FLOW VALVE INSTALLATION/NOTIFICATION					
.13(c)	.383	Does the operator have a voluntary installation program for excess flow valves and does the program meet the requirements outlined in §192.383? Are records adequate?				
	.381	If EFV's are installed, do they meet the performance requirements of §192.381?				
	.383	If the operator does not have a voluntary program for EFV installations, are customers notified in accordance with §192.383? Are records adequate?				
.605(a)	**NORMAL OPERATING PROCEDURES**					
	.605(a)	Plan reviewed and updated? (**annually/15 months**)				
	.605(b)(3)	Making construction records, maps, and operating history available to appropriate operating personnel?				
	.605(b)(5)	Start up and shut down for the pipeline to assure operation with the **MAOP** plus allowable buildup. (See SCADA guidance)				
	.605(b)(8)	Periodically reviewing the work done by operator's personnel to determine the effectiveness and adequacy of the procedures used in normal operation and maintenance and modifying the procedures when deficiencies are found?				
	.605(b)(9)	Taking adequate precautions in excavated trenches to protect personnel from the hazards of unsafe accumulations of vapors or gas, and making available when needed at the excavation, emergency rescue equipment, including a breathing apparatus and, a rescue harness and line.				
	.605(b)(10	Routine inspection and testing of pipe-type or bottle-type holders.				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

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.605(a)	CHANGE in CLASS LOCATION PROCEDURES		S	U	N/A	N/C
	.609	Class location study				
	.611	Confirmation of revision of MAOP				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.613	CONTINUING SURVEILLANCE PROCEDURES					
	.613(a)	Including: change in class location; failures; leakage history; corrosion; substantial changes in CP requirements; and unusual operating and maintenance conditions.				
	.605(c)(4)	Periodically reviewing the response of operating personnel to determine the effectiveness of the procedures and taking corrective action where deficiencies are found?				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.605(a)	DAMAGE PREVENTION PROGRAM PROCEDURES		S	U	N/A	N/C
	.614	Participation in a qualified one-call program, or if available, a company program that complies with the following:				
		(1) Identify persons who engage in excavating?				
		(2) Provide notification to the public in the One Call area?				
		(3) Provide means for receiving and recording notifications of pending excavations?				
		(4) Provide notification of pending excavations to the members?				
		(5) Provide means of temporary marking for the pipeline in the vicinity of the excavations?				
		(6) Provides for follow-up inspection of the pipeline where there is reason to believe the pipeline could be damaged?				
		(i) Inspection must be done to verify integrity of the pipeline.				
		(ii) After blasting, a leak survey must be conducted as part of the inspection by the operator.				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

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.615		EMERGENCY PROCEDURES	S	U	N/A	N/C
	.615(a)(1)	Receiving, identifying, and classifying notices of events which require immediate response by the operator?				
	.615(a)(2)	Establish and maintain communication with appropriate public officials regarding possible emergency?				
	.615(a)(3)	Prompt response to each of the following emergencies:				
		(i) Gas detected inside a building.				
		(ii) Fire located near a pipeline.				
		(iii) Explosion near a pipeline.				
		(iv) Natural disaster.				
	.615(a)(4)	Availability of personnel, equipment, instruments, tools, and material required at the scene of an emergency.				
	.615(a)(5)	Actions directed towards protecting people first, then property.				
	.615(a)(6)	Emergency shutdown or pressure reduction to minimize hazards to life or property.				
	.615(a)(7)	Making safe any actual or potential hazard to life or property.				
	.615(a)(8)	Notifying appropriate public officials required at the emergency scene and coordinating				
	.615(a)(9)	Instructions for restoring service outages after the emergency has been rendered safe.				
	.615(a)(10)	Investigating accidents and failures as soon as possible after the emergency.				
	.615(b)(1)	Furnishing applicable portions of the emergency plan to supervisory personnel who are responsible for emergency action.				
	.615(b)(2)	Training appropriate employees as to the requirements of the emergency plan and verifying effectiveness of training.				
	.615(b)(3)	Reviewing activities following emergencies to determine if the procedures were effective.				
	.615(c)	Establish and maintain liaison with appropriate public officials, such that both the operator and public officials are aware of each other's resources and capabilities in dealing with gas emergencies.				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.605(a)		PUBLIC EDUCATION PROCEDURES				
	.616	Establishing a continuing educational program (in English and other pertinent languages) to better inform the public in how to recognize and report potential gas pipeline emergencies.				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

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.617		FAILURE INVESTIGATION PROCEDURES	S	U	N/A	N/C
	.617	Analyzing accidents and failures including laboratory analysis where appropriate to determine cause and prevention of recurrence?				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.605(a)		MAOP PROCEDURES				
	.619	Establishing **MAOP** so that it is commensurate with the class location?				
		MAOP can be determined by:				
		(a) Design and test or				
		(b) By highest operating pressure to which the segment of line was subjected between **July 1, 1965** and **July 1, 1970**. In case of offshore gathering lines, for the **5 years** preceding **July 1, 1976**.				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.13(c)		PRESSURE TEST PROCEDURES				
	.503	Pressure testing.				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.605(a)		ODORIZATION of GAS PROCEDURES				
	.625(b)	Odorized gas in **Class 3** or **4** locations (if applicable).				
	.625(f)	Are periodic tests performed to confirm detection of the odorized gas at $^1/_5$ of the LEL of the gas				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

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.605(a)	TAPPING PIPELINES UNDER PRESSURE		S	U	N/A	N/C
	.627	Hot taps must be made by qualified crew. **Note: NDT** testing is suggested prior to the tap per **Section 4.4, API 2201**.				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.605(a)	PIPELINE PURGING PROCEDURES					
	.629	Purging of pipelines must be done to prevent entrapment of an explosive mixture in the pipeline.				
		(a) Lines containing air must be properly purged.				
		(b) Lines containing gas must be properly purged.				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.605(b)	MAINTENANCE PROCEDURES					
	.703(b)	Each segment of pipeline that becomes unsafe must be replaced, repaired, or removed from service.				
	.703(c)	Hazardous leaks must be repaired promptly.				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.605(b)	TRANSMISSION PATROLLING PROCEDURES					
	.705(a)	Patrolling ROW conditions and follow-up.				
	.705(b)	Maximum interval between patrols of lines.				

Class Location	At Highway and Railroad Crossings	At All Other Places
1 and 2	2/yr (7½months)	1/yr (15 months)
3	4/yr (4½ months)	2/yr (7½ months)
4	4/yr (4½ months)	4/yr (4½ months)

.605(b)	TRANSMISSION LINE LEAKAGE SURVEY PROCEDURES					
	.706(a)	Leakage surveys are required at intervals not exceeding **15 months** but at least **once each calendar year**?				
	.706(b)	Leak detector survey requirements for lines transporting unodorized gas:				
		• **Class 3** locations - **7½ months** but at least **twice each calendar year**.				
		• **Class 4** locations - **4½ months** but at least **4 times each calendar year**.				

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.605(b)	DISTRIBUTION SYSTEM PATROLLING SURVEY PROCEDURES		S	U	N/A	N/C
	.721(a)	Frequency of patrolling mains must be determined by the severity of the conditions which could cause failure or leakage. (ie: Consider cast iron, weather conditions, known slip areas, etc.)				
	.721(b)(1)	Patrolling surveys are required in business districts at intervals not exceeding 4 1/2 months but at least four times each calendar year.				
	.721(b)(2)	Patrolling surveys are required outside business districts at intervals not exceeding 7 1/2 months, but at least twice each calendar year.				

.605(b)	DISTRIBUTION SYSTEM LEAKAGE SURVEY PROCEDURES		S	U	N/A	N/C
	.723(b)(1)	Leakage surveys are required in business districts at intervals not exceeding 15 months but at least once each calendar year.				
	.723(b)(2)	Leakage surveys are required outside business districts at intervals not exceeding 5 years and for cathodically unproteced distribution lines at intervals not exceeding 3 years.				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.605(b)	LINE MARKER PROCEDURES					
	.707	Line markers installed and labeled as required.				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.605(b)	TRANSMISSION RECORD KEEPING PROCEDURES					
	.709	Are the following records retained as required:				
		(a) Repairs to the pipe - **life of system**.				
		(b) Repairs to pipeline components - **5 years**.				
		(c) Patrols, surveys, and tests - **5 years**.				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.605(b)	TRANSMISSION REPAIR PROCEDURES - IMPERFECTIONS and DAMAGES					
	.713(a)	Repairs of imperfections and damages on pipelines operating above **40% SMYS**:				
		(1) Cut out a cylindrical piece of pipe and replace with pipe of ≥ design strength.				
		(2) Use of full encirclement welded split sleeve.				
		(3) Operating pressure reduced to a safe level during the repair?				

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.605(b)	TRANSMISSION REPAIR PROCEDURES - PERMANENT FIELD REPAIR of WELDS	S	U	N/A	N/C
	.715 The repair of welds, if found to be unacceptable under **§192.241(c)**, the weld must be repaired by:				
	(a) Take the line out of service and repair in accordance with **§192.245**.				
	• Are cracks longer than **8%** of the weld length removed?				
	• For each weld that is repaired, is the defect removed down to clean metal and is the pipe preheated if conditions demand it?				
	• Are the repairs inspected to insure acceptability?				
	• If additional repairs are required, are they done in accordance with qualified written welding procedures to assure minimum mechanical properties are met?				
	(b) If the line remains in service, the weld may be repaired in accordance with **§192.245** if:				
	(1) The weld is not leaking.				
	(2) The pressure is reduced to produce a stress that is **20% of SMYS or less**.				
	(3) Grinding limited so that ⅛ **inch** of pipe weld remains.				
	(c) If the weld cannot be repaired in accordance with **(a) or (b)** above, a full encirclement welded split sleeve must be installed.				
.605(b)	**TRANSMISSION REPAIR PROCEDURES - PERMANENT FIELD REPAIR of LEAKS**				
	.717(a) Field repairs of leaks must be made as follows:				
	(1) Replace by cutting out a cylinder and replace with pipe similar or of greater design strength.				
	(2) Install a full encirclement welded split sleeve of an appropriate design unless the pipe is **joined by mechanical couplings** or **operates at less than 40% SMYS**.				
	(3) A leak due to a corrosion pit may be repaired by installing **a bolt on leak clamp**, or if pipe is not more than **40,000 psi SMYS**, the pits may repaired by **fillet welding a steel plate**. The [plate must have **rounded corners** and the **same thickness or greater** than the pipe, and **not more than ½D** of the pipe size.				
	.717(b) Submerged offshore pipe or pipe in inland navigable waterways may be repaired with a mechanically applied full encirclement split sleeve of appropriate design.				
.605(b)	**TRANSMISSION TESTING of REPAIRS**	**S**	**U**	**N/A**	**N/C**
	.719(a) Is the replacement pipe pressure tested to meet the requirements of a new pipeline installed in the same location?				
	.719(b) Lines of **6 inch diameter or larger** and **operate at 20% or more of SMYS**, the repair must be nondestructively tested in accordance with **§192.241(c)**.				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.605(b)	ABANDONMENT or DEACTIVATION of FACILITIES PROCEDURES				
	.727 Does the operator disconnect both ends, purge, and seal each end before abandonment or a period of deactivation where the pipeline is not being maintained.				

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Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.605(b)	COMPRESSOR STATION PROCEDURES		S	U	N/A	N/C
	.605(b)(6)	Maintaining compressor stations which include provisions for isolating units or sections of pipe and for purging before returning to service.				
	.605(b)(7)	Starting, operating, and shut-down for gas compressor units.				
	.731	Compressor station: testing of remote control shutdowns and pressure relieving devices, except rupture discs, must be tested (**annually/15 months**) and inadequate components must be repaired or replaced.				
	.735(a)	Storage of excess flammable or combustible materials at a safe distance from the compressor buildings.				
	.735(b)	Tank protected according to **NFPA #30**?				
	.736	Compressor buildings in a compressor station must have fixed gas detection and alarm systems (**must be performance tested**), unless:				
		• Unless **50% of the upright side areas** is permanently open or				
		• Unattended field compressor station of **1000 hp or less**.				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.605(b)	PRESSURE LIMITING and REGULATING STATION PROCEDURES					
	.739	Each pressure limiting station, relief device (except rupture discs), and pressure regulating station and its equipment must be tested and inspected. (**annually/15 months**)				
		(a) In good mechanical condition.				
		(b) Adequate from the standpoint of capacity and reliability of operation for the service in which it is employed.				
		(c) Set to function at the correct pressure.				
		(d) Properly installed and protected from dirt, liquids or other conditions that might prevent proper operation.				
	.743	Capacity reviews. (**annually/15 months**)				
		(a) In place physical test (if feasible).				
		(b) Calculation review required.				
		(c) Correct deficiencies.				
	.741	Telemetering or Recording Gauges				
		(a) In place to indicate gas pressure in the district that is supplied by more than one regulating station.				
		(b) Determine the need in a distribution system supplied by only one district station.				
		(c) Inspect equipment and take corrective measures when indications of abnormally high or low pressure.				

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Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.605(b)	TRANSMISSION VALVE MAINTENANCE PROCEDURES		S	U	N/A	N/C
	.745	Inspect and partially operate each transmission valve that might be required during an emergency (**annually/15 months**).				

.605(b)	DISTRIBUTION VALVE MAINTENANCE PROCEDURES					
	.747	Check and service each valve that may be necessary for the safe operation of a distribution system (**annually/15 months**).				

.605(b)	VAULT MAINTENANCE PROCEDURES					
	.749	Inspection of vaults greater than **200 cubic feet**. (**annually/15 months**).				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.605(b)	PREVENTION of ACCIDENTAL IGNITION PROCEDURES					
	.751	Reduce the hazard of fire or explosion by:	S	U	N/A	N/C
		(a) Removal of ignition sources in presence of gas and providing for a fire extinguisher.				
		(b) Prevent welding or cutting on a pipeline containing a combustible mixture.				
		(c) Post warning signs.				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.605(b)	CAULKED BELL AND SPIGOT JOINTS PROCEDURES					
	.753	Cast-Iron caulked bell and spigot joint repair				
		(a) Sealed with mechanical clamp when pressures are 25 psig or more?				
		(b) Sealed with material or device that does not reduce the flexibility of the joint when pressures are 25 psig or more				
		(c) Joint subject to pressure less than 25 psig when exposed seal the joint by means other than caulking.				

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.605(b)	PROTECTING CAST-IRON PIPELINE PROCEDURES		S	U	N/A	N/C
	.755	Operator has knowledge that the support for a segment of a buried cast-iron pipeline is disturbed must provide protection.				
		(a) Vibrations from heavy construction equipment, trains, trucks, busses, or blasting?				
		(b) Impact forces by vehicles?				
		(c) Earth movement?				
		(d) Other foreseeable outside forces which might subject that segment of pipeline to a bending stress.				
		(e) Provide permanent protection for the disturbed section as soon as feasible.				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.13(c)	WELDING PROCEDURES		S	U	N/A	N/C
	.225	Welding procedures must be qualified by destructive test.				
		• Sleeve repair - low hydrogen rod.				
		• Retention of welding procedure - details and test.				
	.227(a)	Welders must be qualified by **Section 3 of API 1104** (18th ed., 1994) or **Section IX of ASME Boiler and Pressure Code** (1995).				
	.227(b)	Welder may be qualified under **Appendix C** to weld on lines that operate at **< 20% SMYS**.				
	.229	Limitations on Welders:				
		(a) To weld on compressor station piping and components, a welder must successfully complete a destructive test.				
		(b) Welder must have used welding process within the preceding **6 months**.				
		(c) A welder must have had within the preceding **6 months**, one weld tested and found acceptable under **Section 3 of API 1104**.				
		(d) Welders qualified for less than 20% of SMYS pipe may not weld unless:				
		(1) Requalified within **1 year/15 months**, or				
		(2) Within **7½ months** or at least **twice per year** had a production weld pass a qualifying test.				
	.231	Welding operation must be protected from weather.				
	.233	Miter joints (**consider pipe alignment**).				
	.235	Welding preparation and joint alignment.				
	.241(a)	Each weld must be visually inspected for:				
		(1) Compliance with the welding procedure.				
		(2) Acceptability of weld is in accordance with **Section 6 of API 1104**.				
	.241(b)	Welds on pipelines to be **operated at 20% or more of SMYS** must be nondestructively tested in accordance with **§192.243** except welds that are visually inspected and approved by a qualified welding inspector if:				
		(1) The nominal pipe diameter is less than **6 inches**, or				
		(2) The pipeline is to operate at a pressure that produces a hoop stress of less than **40% of SMYS** and the welds are so limited in number that nondestructive testing is impractical.				

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Comments: *(If any of the above is Unsatisfactory, please indicate why):*

			S	U	N/A	N/C
.243		**NONDESTRUCTIVE TESTING PROCEDURES**				
	.243(a)	Nondestructive testing of welds must be performed by any process, other than trepanning, that clearly indicates defects that may affect the integrity of the weld.				
	.243(b)	Nondestructive testing of welds must be performed:				
		(1) In accordance with a written procedure, and				
		(2) By persons trained and qualified in the established procedures and with the test equipment used.				
	.243(c)	Nondestructive testing of welds must be performed by any process, other than trepanning, that clearly indicates defects that may affect the integrity of the weld.				
	.243(d)	When nondestructive testing is required under **§192.241(b)**, the following percentages of each day's field butt welds, selected at random by the operator, must be nondestructively tested over the entire circumference;				
		(1) In **Class 1** locations at least **10%**.				
		(2) In **Class 2** locations at least **15%**.				
		(3) In **Class 3** and **4** locations, at crossings of a major navigable river, offshore, and within railroad or public highway rights-of -way, including tunnels, bridges, and overhead road crossings, **100%** unless impractical, then **90%**. Nondestructive testing must be impractical for each girth weld not tested.				
		(4) At pipeline tie-ins, **100%**.				
	.243(f)	Nondestructive testing - the operator must retain, for the life of the pipeline, a record showing by mile post, engineering station, or by geographic feature, the number of welds nondestructively tested, the number of welds rejected, and the disposition of the rejected welds.				
.13(c)		**REPAIR and REMOVAL of WELD DEFECTS**				
	.245(a)	Each weld that is unacceptable must be removed or repaired. Except for offshore pipelines, a weld must be removed if it has a crack that is more than **8%** of the weld length.				
	.245(b)	Each weld that is repaired must have the defect removed down to sound metal, and the segment to be repaired must be preheated if conditions exist which would adversely affect the quality of the weld repair. After repair, the weld must be inspected and found acceptable.				
	.245(c)	Repair of a crack or any other defect in a previously repaired area must be in accordance with a written weld repair procedure, qualified under **§192.225**.				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

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.273(b)	JOINING of PIPELINE MATERIALS		S	U	N/A	N/C
	.281	Joining of plastic pipe.				
		• Type of plastic used				
		• Proper markings in accordance with .63				
		• Manufacturer				
		• Type of joint used				
	.283	Qualified joining procedures for plastic pipe must be in place.				
	.285	Persons making joints with plastic pipe must be qualified.				
	.287	Persons inspecting plastic joints must be qualified.				

.273(b)	JOINING of PIPELINE MATERIALS (Cont.)	
	NAMES	***DATE OF TESTING***

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

.605(b)	CORROSION CONTROL PROCEDURES		S	U	N/A	N/C
	.453	Are corrosion procedures established for:				
		• Design.				
		• Installation.				
	.455(a)	Pipelines installed after **July 31, 1971**; are the buried segments externally coated and cathodically protected within **one year**?				
	.455(b)	Was the pipeline installed bare?				
		• If **Yes**, has the operator proved that a corrosive environment does not exist?				
		• Conducted tests within **6 months** to confirm the above?				
	.457(a)	All effectively coated steel transmission pipelines installed prior to **August 1, 1971**, must be cathodically protected?				
	.457(b)	Is cathodic protection provided in areas of active corrosion on existing bare or ineffectively coated pipelines?				
	.459	Examination of buried pipeline when exposed.				
	.463	Cathodic protection level according to **Appendix D** criteria.				
	.465(a)	Pipe-to-soil monitoring. (**annually/15 months**)				
	.465(b)	Rectifier monitoring. (**6 times per year/2½ months**)				
	.465(c)	Interference bond monitoring. (**as required**)				
	.467	Electrical isolation. (**including casings**)				

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.605(b)	CORROSION CONTROL PROCEDURES (con't)		S	U	N/A	N/C
	.471	Test lead maintenance.				
	.473	Interference currents.				
	.477	Internal corrosion control coupon monitoring. (**2 times per year/7½ months**)				
	.481	Atmospheric corrosion control monitoring. (**3 years**)				
	.483	Remedial measures (general).				
	.487	Remedial measures (distribution lines other than cast iron or ductile iron)				
	.489	Remedial measures (cast iron and ductile iron pipelines)				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

O&M RECORDS			S	U	N/A	N/C
191.71		Annual Report (7100.2-1)				
.16		Customer Notification (verification (90 days) & elements)				
.605(a)		O&M Review				
.603(b)/.709		.605(c) Abnormal Operations				
.605(b)(3)		System Maps				
.603(b)/.709		.614 Damage Prevention (miscellaneous)				
.603(b)/.709		.609 Class location study (if applicable)				
.603(b)/.709		.615(c) Liaison program with Public Officials				
.603(b)/.709		.616 Public Education				
.517		Pressure Testing				
.603(b)/.709		.619 MAOP				
.603(b)/.709		.625 Odorization of Gas				
.603(b)/.709		.705 Patrolling (**refer to table below**)				

Class Location	At Highway and Railroad Crossings	At All Other Places
1 and 2	2/yr (7½months)	1/yr (15 months)
3	4/yr (4½ months)	2/yr (7½ months)
4	4/yr (4½ months)	4/yr (4½ months)

STANDARD INSPECTION REPORT OF GAS DISTRIBUTION PIPELINE

All code references are to Part 192. **S - Satisfactory U - Unsatisfactory N/A - Not Applicable N/C - Not Checked**

			O&M RECORDS (con't)	S	U	N/A	N/C
.603(b)/.709		.706	Leak Surveys (**refer to table below**)				

Class Location	Required	Not Exceed
1 and 2	Annually	15 months
3	Bi-Annually	7½ months
4	Quarterly	4½ months

.603(b)		.721(b)(1)	Business District - 4/year not to exceed 4 ½ months				
.603(b)		.721(b)(2)	Outside Business District - 2/year not to exceed 7 ½ months				
		.723(b)(1)	Leakage Survey - Business District (1 yr / 15 mo)				
		.723(b)(2)	Leakage Survey				
			• Outside business district (5 yrs)				
			• Cathodically unprotected distribution lines (3 yrs)				
.709(a)			Repair - Pipe (**life**)				
.709(b)			Repair - Components (**5 years**)				
.603(b)/.709		.731(a)	Compressor Station Relief Devices (**annually/15 months**)				
.603(b)/.709		.731(c)	Compressor Station Emergency Shutdown (**annually/15 months**)				
.603(b)/.709		.736(c)	Compressor Stations - Detection and Alarms (**performance test**)				
.603(b)/.709		.739	Pressure Limiting and Regulating Stations (**annually/15 months**)				
.603(b)/.709		.743	Pressure Limiting and Regulator Stations - Capacity (**annually/15 months**)				
.709		.745	Valve Maintenance Transmission Lines (**annually/15 months**)				
.603(b)		.747	Valve Maintenance Distribution Lines (**annually/15 months**)				
.603(b)/.709		.749	Vault Maintenance (**>200 cubic feet**) (**annually/15 months**)				
.603(b)		.753	Caulked Bell and Spigot Joint Repair.				
.603(b)		.755	Protecting Cast-Iron Pipeline When Disturbed.				
.603(b)		.225	Welding - Procedure				
.603(b)		.227	Welding - Welder Qualification				
.603(b)		.243(b)(2	NDT - NDT Personnel Qualification				
.603(b)		.243(f)	NDT Records (**life**)				

STANDARD INSPECTION REPORT OF GAS DISTRIBUTION PIPELINE

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			CORROSION CONTROL RECORDS	S	U	N/A	N/C
.491		.491(a)	Maps or Records				
.491		.459	Examination of Buried Pipe when Exposed				
.491		.465(a)	Annual Pipe-to-Soil Monitoring (**annually/15 months**)				
.491		.465(b)	Rectifier Monitoring (**6 times per year/2½ months**)				
.491		.465(c)	Interference Bond Monitoring - Critical (**6 times per year/2½ months**)				
.491		.465(c)	Interference Bond Monitoring - Noncritical (**annually/15 months**)				
.491		.467	Electrical Isolation (**including casings**)				
.491		.471	Test Lead Maintenance				
.491		.473	Interference currents				
.491		.477	Internal Corrosion Control Coupon Monitoring (**Bi-annually/7½ months**)				
.491		.481	Atmospheric Corrosion Control Monitoring (**3 years**)				
.491		.483	Remedial Measures				

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

		PERFORMANCE REVIEW of FIELD and RECORDS	S	U	N/A	N/C
.163		Compressor Station: Security				
.171		Compressor Station: Fire Fighting Equipment				
.179		Valve Protection from Tampering or Damage				
.463		Cathodic Protection				
.465		Rectifiers				
.479		Pipeline Components exposed to the Atmosphere				
.605		Knowledge of Operating Personnel				
.612(b)		Water Crossings (**if applicable**)				
.707		ROW Markers, Road and Railroad Crossings				
.707		Compressor Station: Signs				
.719		Pre-pressure Tested Pipe (**Markings and Inventory**)				
.731		Compressor Station: Relief Devices and ESDs				
.735		Compressor Station: Storage of Combustibles				
.736		Compressor Station: Gas Detection				
.739		Pressure Limiting and Regulating Devices (**mechanical**)				
.743		Pressure Limiting and Regulating Devices (**capacities**)				
.745		Valve Maintenance				
.751		Warning Signs				

STANDARD INSPECTION REPORT OF GAS DISTRIBUTION PIPELINE

All code references are to Part 192. **S - Satisfactory U - Unsatisfactory N/A - Not Applicable N/C - Not Checked**

Comments: *(If any of the above is Unsatisfactory, please indicate why):*

Attachment 1 -INTERNAL CORROSION WORKSHEET NATURAL GAS PIPELINES

NOTE: Refer to OPS Enforcement Manual, Code Compliance Guidelines PART 192, SUBPART I: CORROSION CONTROL for Internal Corrosion

1. Are internal corrosion control procedures established? Y:_____N:_____

Comments:

2. Is gas quality analysis done on a periodic basis for O_2, H_2O, H_2S, N_2, & CO_2? Y:_____N:_____

Comments:

3. Does operator inject corrosion inhibitor to mitigate internal corrosion? Y:_____N:_____

Comments:

4. Each coupon utilized or other means of monitoring internal corrosion must be checked two times each calendar year, but with interval not exceeding 7 ½ months. Y:_____N:_____

Comments:

Attachment 1 -INTERNAL CORROSION WORKSHEET NATURAL GAS PIPELINES

5. Does operator control internal corrosion effects caused by water by dehydration and water-soluble inhibitors? Y:_____N:_____

Comments:

6. Does the operator pig their pipelines to remove any water or sludge build-ups (sample analysis should be performed)? Y:_____N:_____

Comments:

7. Whenever pipe is removed (including coupons removed during hot taps), is it examined for evidence of internal corrosion? Y:_____N:_____

Comments:

8. Does the operator track internal corrosion and take corrective action to prevent recurrence? Y:_____N:_____

Comments:

Attachment 1 -INTERNAL CORROSION WORKSHEET NATURAL GAS PIPELINES

9. Which method does the operator utilize to determine the effectiveness of its corrosion inhibition program?
   _____ Gas and Fluid analysis
   _____ Rates of pipeline corrosion as determined by coupons
   _____ Solids removed from the system
   _____ Analysis of inhibitor samples from the pipeline
   _____ Magnetic and electronic device (pigs)
   _____ Other

Comments:

10. Is the inhibitor compatible with the product being transported? Y:_____N:_____

Comments:

11. Is gas containing more than 0.1 grain of H_2S per 100 standard cubic feet being stored in pipe -type or bottle type holders? Y:_____N:_____

Comments:

12. Does the operator analyze water samples relating to corrosion activity, especially at drips downstream of: compressor stations, dehydration, and/or gas processing plants? Y:_____N:_____

Comments:

Attachment 1 -INTERNAL CORROSION WORKSHEET NATURAL GAS PIPELINES

13. Has the operator identified low points throughout their system where fluids are likely to accumulate and does the operator identify how to remove the fluids from the lines? Y:_____N:_____

    Does the operator specify the frequency in how often the fluids are removed? Y:_____N:_____

Comments:

14. Does the operator address fluid accumulation in un-pigable lines? (ie…fluid samples, coupons…ect.) Y:_____N:_____

Comments:

Attachment 2 - SCADA GAS WORKSHEET

Note: If the Operator is scheduled or has had an Integrity Management Program inspection this year, *DO NOT USE THIS WORKSHEET*.

1. **Pipeline Safety Advisory Bulletin - ADB-99-03 - July 7, 1999**
   • Review Bulletin with Operator.

Comments:

Operators may choose to use SCADA, or other forms of automation, to comply with the Pipeline Safety Regulations. The following code subsections could apply if a SCADA system is utilized:

2. §192.605(c)(1)(iii) - Loss of communications.
   •Off-site Back-up Center
   •Data transfer to redundant or off-site processors
   •Battery and/or Emergency Generator
   •Redundant data communications paths, automatic restoration or manual?
   •Data Reduction & Archiving
   •Operating practices during data communications outages

Comments:

3. §192.731(c) & .745 - Testing SCADA controlled valves and safety devices.

   • Test functionality of SCADA controls

Comments:

Attachment 2 - SCADA GAS WORKSHEET

4. §192.603 General provisions.
   (b) Each operator shall keep records necessary to administer the procedures established under §192.605.

   • Ensure SCADA screens/status board are updated to reflect current pipeline configurations
   • Ensure pipeline safety parameters are current (ie: MOP, alarm set points, etc.
   • Abnormal operating condition records.

Comments: